Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Division

Name of Work: Modified Estimate For Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in wardno. 03 of Yelahanka New town sub division

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	Removing BS Slab of drain and Stacking (Page No 25., I.No.5.32 of KPWD S.R 2016-17).								
	LHS								
	Muneshwaranagar								
	11th main dead end	1	37.00	1.65		61.05			
	11th main	1	83.00	1.65		136.95			
	10th main	1	88.00	1.65		145.20			
	10th main dead end	1	31.00	1.65		51.15			
	9th main dead end	1	55.00	1.65		90.75			
	9th main	1	58.00	1.65		95.70			
	8th main	1	96.00	1.65		158.40			
	5th cross	1	123.00	1.65		202.95			
	4th cross	1	48.00	1.65		79.20			
	Srigandhakaval								
	1st main	1	69.00	1.65		113.85			
	1st cross	1	40.00	1.65		66.00			
	3rd cross	1	35.00	1.65		57.75			
	4th cross	1	59.00	1.65		97.35			
	RHS								
	Muneshwaranagar								
	11th main dead end	1	37.00	1.65		61.05			
	11th main	1	71.00	1.65		117.15			
	10th main	1	93.00	1.65		153.45			
	10th main dead end	1	40.00	1.65		66.00			
	9th main dead end	1	63.00	1.65		103.95			
	9th main	1	79.00	1.65		130.35			
	8th main	1	100.00	1.65		165.00			
	5th cross	1	120.00	1.65		198.00			
	4th cross	1	48.00	1.65		79.20			
	Srigandhakaval								
	1st main	1	69.00	1.65		113.85			
	1st cross	1	33.50	1.65		55.28			
	3rd cross	1	40.00	1.65		66.00			
	4th cross	1	59.00	1.65		97.35			
						2762.93	Sqm	69.01	190669.45
2	Refixing Stone Slabs of drains and Pointing in C.M(1:3). (Page No 25., I.No.5.33 of KPWD S.R 2016-17)								
	Qty same item no -1					2762.93			
						2762.93	Sqm	84.59	233715.83
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 7.5cm thick (Page No 25., I.No.5.31.1 of KPWD S.R 2016-17).								
	LHS								
	Muneshwaranagar								
	11th main dead end	1	20.00	1.65		33.00			

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	11th main	1	40.00	1.65		66.00			
	10th main	1	44.00	1.65		72.60			
	10th main dead end	1	18.00	1.65		29.70			
	9th main dead end	1	28.00	1.65		46.20			
	9th main	1	30.00	1.65		49.50			
	8th main	1	46.00	1.65		75.90			
	5th cross	1	35.00	1.65		57.75			
	4th cross	1	25.00	1.65		41.25			
	Srigandhakaval								
	1st main	1	35.00	1.65		57.75			
	1st cross	1	20.00	1.65		33.00			
	3rd cross	1	18.00	1.65		29.70			
	4th cross	1	30.00	1.65		49.50			
	RHS								
	Muneshwaranagar								
	11th main dead end	1	18.00	1.65		29.70			
	11th main	1	20.00	1.65		33.00			
	10th main	1	30.00	1.65		49.50			
	10th main dead end	1	16.00	1.65		26.40			
	9th main dead end	1	25.00	1.65		41.25			
	9th main	1	30.00	1.65		49.50			
	8th main	1	40.00	1.65		66.00			
	5th cross	1	50.00	1.65		82.50			
	4th cross	1	24.00	1.65		39.60			
	Srigandhakaval								
	1st main	1	30.00	1.65		49.50			
	1st cross	1	13.20	1.65		21.78			
	3rd cross	1	20.00	1.65		33.00			
	4th cross	1	25.00	1.65		41.25			
						1204.83	**Sqm**	**698.96**	**842127.98**
4	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete. (BCSR 2016-2017, Page 25, Item No [illegible])								
	For drain	1	28.00	1.20		33.60			
						33.60	**Sqm**	**883.39**	**29681.90**
5	KSRB 5-8.3 : Proiding three line dressing to granite stone slab / granite stone masonry as per specifications. KBS 5.1.13 (BCSR 2016-2017, Page 24, Item No 5.19)								
	For drain	1	28.00	1.20		33.60			
						33.60	**Sqm**	**1442.45**	**48466.32**
6	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-								
	missing/damaged	110	0.60	0.90		59.40			
						59.40	**Sqm**	**2205.00**	**130977.00**
7	KSRRB 300-1. Earthwork **excavation by manual means** in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No142., I.No.19.1 of KPWD S.R 2016-17).								
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	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Muneshwaranagar								
	11th main dead end	2	50.00	0.50	0.40	20.00			
	11th main	2	168.80	0.50	0.40	67.52			
	10th main	2	170.20	0.50	0.40	68.08			
	10th main dead end	2	43.00	0.50	0.40	17.20			
	9th main dead end	2	99.00	0.50	0.40	39.60			
	9th main	2	170.80	0.50	0.40	68.32			
	8th main	2	170.00	0.50	0.40	68.00			
	5th cross	2	260.00	0.50	0.40	104.00			
	4th cross	1	171.00	0.50	0.40	34.20			
	Srigandhakaval								
	1st main	2	150.00	0.50	0.40	60.00			
	3rd cross	2	125.00	0.50	0.40	50.00			
	4th cross	1	148.00	0.50	0.40	29.60			
	Attur layout								
	2nd main	2	327.60	0.50	0.40	131.04			
	4th main	2	411.40	0.50	0.40	164.56			
	Road								
	Muneshwaranagar								
	11th main dead end	1	50.00	5.70	0.350	99.75			
	11th main	1	168.80	4.95	0.350	292.45			
	10th main	1	170.20	4.80	0.350	285.94			
	10th main dead end	1	43.50	4.90	0.350	74.60			
	9th main dead end	1	99.20	5.20	0.350	180.54			
	9th main	1	170.80	5.05	0.350	301.89			
	8th main	1	170.80	5.30	0.350	316.83			
	5th cross	1	267.00	5.35	0.350	499.96			
	4th cross	1	172.00	5.10	0.350	307.02			
	Srigandhakaval								
	1st main	1	153.00	4.70	0.350	251.69			
	1st cross	1	97.50	4.50	0.350	153.56			
	#10A house road	1	53.40	5.50	0.350	102.80			
	3rd cross	1	125.00	4.40	0.350	192.50			
	4th cross	1	148.60	4.55	0.350	236.65			
	2nd cross	1	63.70	4.65	0.350	103.67			
	Attur layout								
	2nd main	1	327.60	4.10	0.350	470.11			
	4th main	1	411.40	4.20	0.350	604.76			
						5396.82	Cum	91.27	492568.01
8	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, (Page No 5., I.No.2.3 of KPWD S.R 2016-17).								
	Ranga mandira								
		2	33.50	0.90	0.80	48.24			
		2	15.00	0.90	0.80	21.60			
	For Pillars	20	0.60	0.60	0.40	2.88			
	For fencing	1	285.00	0.80	0.90	205.20			

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
						277.92	Cum	214.33	59566.59
9	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, (Page No 5., I.No.2.3 of KPWD S.R 2016-17)								
						0.00	Cum	210.36	0.00
10	KSRB 4-1.2: Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.2)/ PWD SR 2016-17								
						0.00	Cum	5616.20	0.00
11	KSRB 4-1.2: Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.2)/ PWD SR 2016-17								
	Ranga mandira								
		2	33.50	0.75	0.15	7.54			
		2	15.00	0.75	0.15	3.38			
	Steps, entrance	2	16.00	0.30	0.15	1.44			
	Platform flooring	1	33.50	16.00	0.15	80.40			
	Deduct pillars	-20	0.60	0.60	0.15	-1.08			
	Valmiki Park name board	1	2.60	3.80	0.15	1.48			
	For fencing	1	285.00	0.80	0.15	34.20			
						127.35	Cum	5722.16	728742.83
12	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6 stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (I No-34.8.2,P No-254)								
	Ranga mandira								
		2	33.50	0.75	0.80	40.20			
		2	15.00	0.75	0.80	18.00			
	Steps, entrance	1	16.00	0.30	0.60	2.88			
		1	16.00	0.30	0.40	1.92			
	Deduct pillars	-20	0.75	0.60	0.80	-7.20			
	For fencing	1	285.00	0.60	0.45	76.95			
		1	285.00	0.45	0.45	57.71			
	Deduct pillars	-142	0.45	0.45	0.45	-12.94			
						177.52	Cum	4748.06	842888.67
13	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (Page No 23., I.No.5.6 of KPWD S.R 2016-17).								
	Ranga mandira								
		2	33.50	0.60	0.80	32.16			
		2	15.00	0.60	0.80	14.40			

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Deduct pillars	-20	0.75	0.60	0.80	-7.20			
						39.36	Cum	5675.67	223394.37
14	KSRB 4-1 .6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement@ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 ems. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. (BCSR 2016-2017, Page 12, Item No 4.6)								
	For fencing	1	285.00	0.45	0.10	12.83			
		142	0.45	0.45	0.45	12.94			
						25.76	Cum	6170.09	158970.83
15	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint (BCSR 2016-2017, Page 262, Item No 37.3)								
	For fencing	1	195.00		1.80	351.00			
		1	90.00		1.50	135.00			
						486.00	Sqm	747.31	363192.66
16	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1 :2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 ems. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) (BCSR 2016-2017, Page 262, Item No 37.2)								
	For fencing	142	2.30			326.60			
						326.60	m	928.75	303329.75
17	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint (BCSR 2016-2017, Page 262, Item No 37.4)								
	For fencing	2	285.00			570.00			
						570.00	m	367.42	209429.40
18	MANUFACTURING:-PROVIDING AND FIXING A GAZEBO of Size 22 feet dia approximate) made of MS Round pipe of 6 inches diameter of 12 SWG for pillars 10feet in height,in which 8ft will be above the ground level and 2 feet embedded in cement concrete and provided with MS plate on top of the pillars.MS I section 100x50mm of heavy gauge for Rafters)is placed between the poles on top of the flush plate.Also MS rectangular tubes of 100x40mm are to be mounted vertically on all 8pillars.MS rectangular tubes of 40x20mm reepers are welded horizontally in between the rectangle tubes for a distance of 1 feet approximately so as to get the desired octangol Shape for fixing approved qualoity Corrugated Managlore tiles on the roof 2 layers as per the design. Flat design tiles and rigid tiles are to be provided on Existing reepers and pointed with cement mortar.The Gazebo is to be fixed ob asuitable platform the central height being 15 to 16 feet and including allround bed Concrete 1:4:8 and tampered with fine red earth with cement slurry.the works includes earthwork								
						0.00	Unit	407321.25	0.00

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members asshown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specifiocation.(BCSR 2016-2017, Page 422, Item No 7.37)								
	Ranga mandira								
		1		5.85	3.80	22.23			
		1		5.80	3.80	22.04			
						44.27			
			Upto 125%			12.50	Sqm	3327.16	41589.50
			Above 125%			31.77	Sqm	3265.54	103746.27
	Basic rate	2934.00							
	6.00% Aw	176.04							
	Sub total	3110.04							
	T.P, 5.00% above	155.502							
	Total	3265.54							
20	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification (BCSR 2016-2017, Page 109, Item No 14.62)								
	Valmiki Park name board	1	2.60	3.80		9.88			
						9.88	Sqm	1230.39	12156.25
21	Providing and fixing Joint bench of Granite made out of Sadarahalli Grey Stone legs with back supporting with 4line finishing. all accessories and with all lead and lift, loading and unloading etc., complete and as per approved design and directions of the Engineer-in-charge								
						0.00	Unit	16800.00	0.00
22	Providing, erecting and fixing name board made of Granite pillars and gang saw water cut granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, groves in joints including cost of curing.								
		1				1.00			
						1.00	Unit	42000.00	42000.00
23	KSRB 5-11 : Providing and constructing load bearing wall with cement concrete cavities blocks (hollow blocks) of size 400x200x200 mm Grade B having a minimum face shell thickness of 30mm and web thickness of 25mm with block density between 1100 kg/m3 and 1500 kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 (Page No 24., I.No.5.24.1 of KPWD S.R 2016-17).								
						0.00	Sqm	1075.03	0.00
24	Providing and fixing for flooring 20mm thick gang saw water cut sadarhalli gray granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, groves in joints including cost of curing - minimum width of 900mm. (P.No. 109, I.No. 14.61.2 of PWD SR 2016-17)								

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Steps, entrance thread	2	16.00	0.30		9.60			
	riser	3	16.00	0.15		7.20			
	Stage, steps thread	12	1.65	0.15		2.97			
	Platform flooring	1	33.50	16.00		536.00			
	Deduct pillars	-20	0.60	0.60		-7.20			
						548.57			
			Upto 125%			543.00	Sqm	2142.13	1163176.59
			Above 125%			5.57	Sqm	2102.46	11710.69
	Basic rate	1889.00							
	6.00% Aw	113.34							
	Sub total	2002.34							
	T.P, 5.00% above	100.117							
	Total	2102.46							
25	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (Page No 113, I.No. 15.1 of KPWD S.R 2016-17								
						0.00	Sqm	110.00	0.00
26	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305 (P.No.148 I.No.19.60)								
	Ranga mandira								
		1	32.00	16.80	0.75	403.20			
						403.20	Cum	342.47	138083.90
27	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/								
						0.00	Cum	6690.24	0.00
28	KSRB 4.2.2 : Providing and laying in position **plain cement concrete of mix M20** withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2016-17								
	Ranga mandira								
		20	0.60	0.60	1.00	7.20			
						7.20	Cum	6816.47	49078.58

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
29	KSRB 4.9.2 : Providing **T.M.T steel reinforcement** for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3(I No-4.46.2,P No-17)								
						0.00	Tn	67455.59	0.00
30	KSRB 4.9.2 : Providing **T.M.T steel reinforcement** for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3(I No-4.46.2,P No-17)								
	For Culvert, 100 kgs/cum		7.20	60.00		0.43			
						0.43	Tn	68728.34	29690.64
31	Fabricating, supplying and erecting M.S. TubularTruss of span upto 10m. The bottom and top member is provided with 50x50x6mm double equal angles, welded back to back and in between top and bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided. All the members are welded together with 6mm gusset plate as per Drawing. The entire truss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all themembers including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, etc., complete as per specification. (I No-7.29,P No-45)								
						15000.00			
						15000.00	Kgs	124.74	1871100.00
32	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses. (P.No.300 Item No38.30)								
	Ranga mandira								
		1	33.50	18.00		603.00			
						603.00	Sqm	873.18	526527.54
33	Fabricating, providing and erecting in position Hot dip galvanised Gate. Using 72 X 72 X 4.8mm Sq. GI Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 75X12 mm and 50X6 mm arch bend to hot dip galvanised flats. The work is inclusive of throughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal putty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged designs etc., heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia bearing in three places for each flop. Heavy Duty Locking arrangements at tow places including cost of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful								
						0.00	Sqm	13098.75	0.00

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters, bittresses,buttresses plinth and string course including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15/ Item No. 4.31/ PWD SR 2016-17								
						0.00	Sqm	326.11	0.00
35	Providing precast slab of 250 mm thick including cost of all materials, labour, curing, transportation, loading , unloading,etc.,complete as per the direction of engineer in charge- (Data rate)								
						0.00	Sqm	5366.55	0.00
36	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material (Page No 155., I.No.20.4.2 of KPWD S.R 2016-17).								
	Muneshwaranagar								
	11th main dead end	1	50.00	5.70	0.175	49.88			
	11th main	1	168.80	4.95	0.175	146.22			
	10th main	1	170.20	4.80	0.175	142.97			
	10th main dead end	1	43.50	4.90	0.175	37.30			
	9th main dead end	1	99.20	5.20	0.175	90.27			
	9th main	1	170.80	5.05	0.175	150.94			
	8th main	1	170.80	5.30	0.175	158.42			
	5th cross	1	267.00	5.35	0.175	249.98			
	4th cross	1	172.00	5.10	0.175	153.51			
	Srigandhakaval								
	1st main	1	153.00	4.70	0.175	125.84			
	1st cross	1	97.50	4.50	0.175	76.78			
	#10A house road	1	53.40	5.50	0.175	51.40			
	3rd cross	1	125.00	4.40	0.175	96.25			
	4th cross	1	148.60	4.55	0.175	118.32			
	2nd cross	1	63.70	4.65	0.175	51.84			
	Attur layout								
	2nd main	1	327.60	4.10	0.175	235.05			
	4th main	1	411.40	4.20	0.175	302.38			
						2237.35	Cum	1748.52	3912053.63
37	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158 I.No.20.18)								
	Muneshwaranagar								
	11th main dead end	1	50.00	5.70	0.225	64.13			
	11th main	1	168.80	4.95	0.225	188.00			
	10th main	1	170.20	4.80	0.225	183.82			
	10th main dead end	1	43.50	4.90	0.225	47.96			
	9th main dead end	1	99.20	5.20	0.225	116.06			
	9th main	1	170.80	5.05	0.225	194.07			
	8th main	1	170.80	5.30	0.225	203.68			
	5th cross	1	267.00	5.35	0.225	321.40			

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	4th cross	1	172.00	5.10	0.225	197.37			
	Srigandhakaval								
	1st main	1	153.00	4.70	0.225	161.80			
	1st cross	1	97.50	4.50	0.225	98.72			
	#10A house road	1	53.40	5.50	0.225	66.08			
	3rd cross	1	125.00	4.40	0.225	123.75			
	4th cross	1	148.60	4.55	0.225	152.13			
	2nd cross	1	63.70	4.65	0.225	66.65			
	Attur layout								
	2nd main	1	327.60	4.10	0.225	302.21			
	4th main	1	411.40	4.20	0.225	388.77			
						2876.59	Cum	1856.48	5340340.39
38	Providing and applying primer coat with ss bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MORTH Specification No.502 (P.No.160/It No.21.6)								
	Muneshwaranagar								
	11th main dead end	1	50.00	5.70		285.00			
	11th main	1	168.80	4.95		835.56			
	10th main	1	170.20	4.80		816.96			
	10th main dead end	1	43.50	4.90		213.15			
	9th main dead end	1	99.20	5.20		515.84			
	9th main	1	170.80	5.05		862.54			
	8th main	1	170.80	5.30		905.24			
	5th cross	1	267.00	5.35		1428.45			
	4th cross	1	172.00	5.10		877.20			
	Srigandhakaval								
	1st main	1	153.00	4.70		719.10			
	1st cross	1	97.50	4.50		438.75			
	#10A house road	1	53.40	5.50		293.70			
	3rd cross	1	125.00	4.40		550.00			
	4th cross	1	148.60	4.55		676.13			
	2nd cross	1	63.70	4.65		296.21			
	Attur layout								
	2nd main	1	327.60	4.10		1343.16			
	4th main	1	411.40	4.20		1727.88			
						12784.87	Sqm	28.94	369993.99
39	KSRRB M500- 15. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No.507 (P.No.162&163 It.No.21.17.6)								
	Muneshwaranagar								
	11th main dead end	1	50.00	5.70	0.05	14.25			
	11th main	1	168.80	4.95	0.05	41.78			
	10th main	1	170.20	4.80	0.05	40.85			
	10th main dead end	1	43.50	4.90	0.05	10.66			
	9th main dead end	1	99.20	5.20	0.05	25.79			
	9th main	1	170.80	5.05	0.05	43.13			

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	8th main	1	170.80	5.30	0.05	45.26			
	5th cross	1	267.00	5.35	0.05	71.42			
	4th cross	1	172.00	5.10	0.05	43.86			
	Srigandhakaval								
	1st main	1	153.00	4.70	0.05	35.96			
	1st cross	1	97.50	4.50	0.05	21.94			
	#10A house road	1	53.40	5.50	0.05	14.69			
	3rd cross	1	125.00	4.40	0.05	27.50			
	4th cross	1	148.60	4.55	0.05	33.81			
	2nd cross	1	63.70	4.65	0.05	14.81			
	Attur layout								
	2nd main	1	327.60	4.10	0.05	67.16			
	4th main	1	411.40	4.20	0.05	86.39			
						639.24	**Cum**	**6598.98**	**4218353.42**
40	KSRRB 500-7:Providing and **applying tack coat** with bitumen emulsion using 80/100 grade bitumen (VG20) on the prepared black toped suface at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all materials, labour, HOM of Machineries complete as per Specifications.(P.No.160 & I.No.21.7)								
	Muneshwaranagar								
	11th main dead end	1	50.00	5.70		285.00			
	11th main	1	168.80	4.95		835.56			
	10th main	1	170.20	4.80		816.96			
	10th main dead end	1	43.50	4.90		213.15			
	9th main dead end	1	99.20	5.20		515.84			
	9th main	1	170.80	5.05		862.54			
	8th main	1	170.80	5.30		905.24			
	5th cross	1	267.00	5.35		1428.45			
	4th cross	1	172.00	5.10		877.20			
	Srigandhakaval								
	1st main	1	153.00	4.70		719.10			
	1st cross	1	97.50	4.50		438.75			
	#10A house road	1	53.40	5.50		293.70			
	3rd cross	1	125.00	4.40		550.00			
	4th cross	1	148.60	4.55		676.13			
	2nd cross	1	63.70	4.65		296.21			
	Attur layout								
	2nd main	1	327.60	4.10		1343.16			
	4th main	1	411.40	4.20		1727.88			
						12784.87	**Sqm**	**12.24**	**156486.75**
41	KSRRB M500- 15. Providing, laying **bituminous Concrete** using 40/60 THP capacity H.M.P with Mechanical paver Gr-II (30mm to 45mm), crushed aggregates of specified grading premixed with 6% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No.500.9 complete in all respects complete as per specifications MORTH Specification No.509 (P.No.164 Item No.21.22.6)								
	Muneshwaranagar								
	11th main dead end	1	50.00	5.70	0.04	11.40			
	11th main	1	168.80	4.95	0.04	33.42			
	10th main	1	170.20	4.80	0.04	32.68			
	10th main dead end	1	43.50	4.90	0.04	8.53			

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	9th main dead end	1	99.20	5.20	0.04	20.63			
	9th main	1	170.80	5.05	0.04	34.50			
	8th main	1	170.80	5.30	0.04	36.21			
	5th cross	1	267.00	5.35	0.04	57.14			
	4th cross	1	172.00	5.10	0.04	35.09			
	Srigandhakaval								
	1st main	1	153.00	4.70	0.04	28.76			
	1st cross	1	97.50	4.50	0.04	17.55			
	#10A house road	1	53.40	5.50	0.04	11.75			
	3rd cross	1	125.00	4.40	0.04	22.00			
	4th cross	1	148.60	4.55	0.04	27.05			
	2nd cross	1	63.70	4.65	0.04	11.85			
	Attur layout								
	2nd main	1	327.60	4.10	0.04	53.73			
	4th main	1	411.40	4.20	0.04	69.12			
						511.39	Cum	7438.18	3803845.09
42	KSRRB M800-13: **Road marking** with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface- providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface to level, uniform and free from streaks and holes complete as per specifications. MORTH specification No. 803, No. 1974 (P.No.185 & I.No.24.15)								
	Muneshwaranagar								
	11th main dead end	2	50.00	0.10		10.00			
	11th main	2	168.80	0.10		33.76			
	10th main	2	170.20	0.10		34.04			
	10th main dead end	2	43.50	0.10		8.70			
	9th main dead end	2	99.20	0.10		19.84			
	9th main	2	170.80	0.10		34.16			
	8th main	2	170.80	0.10		34.16			
	5th cross	2	267.00	0.10		53.40			
	4th cross	2	172.00	0.10		34.40			
	Srigandhakaval								
	1st main	2	153.00	0.10		30.60			
	1st cross	2	97.50	0.10		19.50			
	#10A house road	2	53.40	0.10		10.68			
	3rd cross	2	125.00	0.10		25.00			
	4th cross	2	148.60	0.10		29.72			
	2nd cross	2	63.70	0.10		12.74			
	Attur layout								
	2nd main	2	327.60	0.10		65.52			
	4th main	2	411.40	0.10		82.28			
						538.50	Sqm	569.86	306869.61
43	**Loading and unloading of stone boulders/**stone aggregates/sand/kankar/Moorum including all lead and lift and as per specification and direction of the Engineer in charge of the work.(P.No-134,I No-17.2)								
	Qty frm Item No-7					5396.82			
	Qty frm Item No-8					277.92			
						5674.74	Cum	71.40	405176.63

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Cost of haulage Excluding loading and unloading including all lead and lift and as per specification and direction of the Engineer in charge of the work., 10 Km lead								
Qty frm Item No-7					5396.82			
Qty frm Item No-8					277.92			
					5674.74	Cum	33.60	190671.36
							Total Construction Cost	27551631.07
							Utility Shifting, Miscellaneous, Rounding off	569.93
							GRAND TOTAL	27552201.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2016-2017, issue rates and Data Rates.

Assistant Engineer

Asst. Executive Engineer

Executive Engineer,
Yelahanka Division,
BBMP Bangalore

Modified Estimate sanctioned

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ.